Preliminary Classification:

Proposed Class:

Subclass:

NOTE: "All applicants are requested to include a preliminary classification on newly filed patent applications. The preliminary classification, preferably class and subclass designations, should be identified in the upper right-hand corner of the letter of transmittal accompanying the application papers, for example 'Proposed Class 2, subclass 129." M.P.E.P. Section 601, 7th ed.

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Mail Stop Patent Application Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450 Optional Customer No. Bar Code



PATENT TRADEMARK OFFICE

#### NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of

Inventor(s):

- 1. A. **ALI**
- 2. A. BHATTACHARYA
- 3. S. BANERJEE
- 4. D. N. TIWARI
- 5. S. K. HAZRA
- 6. R. S. YADAV

WARNING:

37 C.F.R. Section 1.41(a)(1) points out:

"(a) A patent is applied for in the name or names of the actual inventor or inventors.

(1) The inventorship of a nonprovisional application is that inventorship set forth in the oath or declaration as prescribed by Section 1.63, except as provided for in Section 1.53(d)(4) and Section 1.63(d). If an oath or declaration as prescribed by Section 1.63 is not filed during the pendency of a nonprovisional application, the inventorship is that inventorship set forth in the application papers filed pursuant to Section 1.53(b), unless a petition under this paragraph accompanied by the fee set forth in Section 1.17(I) is filed supplying or changing the name or names of the inventor or inventors."

For (title):

A PROCESS FOR REMOVAL OF ORGANIC SULPHUR FROM COAL AND A DEVICE TEHREOF

## **CERTIFICATION UNDER 37 C.F.R. 1.10\***

(Express Mail label number is mandatory.) (Express Mail certification is optional.)

I hereby certify that this correspondence and the documents referred to as attached therein are being deposited with the United States Postal Service on this date <u>March 31, 2004</u>, in an envelope as "Express Mail Post Office to Addressee", m ailing Label Number <u>EV 481667535 US</u>, addressed to the Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450

CONNIE YANNOTTI (type or print name of person mailing paper)

Signature of person mailing paper

WARNING: Certificate of mailing (first class) or facsimile transmission procedures of 37 C.F.R. 1.8 cannot be used

to obtain a date of mailing or transmission for this correspondence.

\*WARNING: Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label

placed thereon prior to mailing. 37 C.F.R. 1.10(b).

"Since the filing of correspondence under § 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will **not** be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

EXPRESS MAIL LABEL NO.: EV 481667535 US

(New Application Transmittal-page 1 of 15) 4-1

## 1. Type of Application

This new application is for a(n)

(check one applicable item below)

[ ] Design [ ] Plant  WARNING: Do not use this trans			
		Do not use this transmittal for a completion in the U.S. of an International Application under 35 U.S. of 371(c)(4), unless the International Application is being filed as a divisional, continuation or continuation in-part application.	
WARNIN	V <b>G</b> :	Do not use this transmittal for the filing of a provisional application.	
NOTE:	TRANSM	he following 3 items apply, then complete and attach ADDED PAGES FOR NEW APPLICATION MITTAL WHERE BENEFIT OF A PRIOR U.S. APPLICATION CLAIMED and a NOTIFICATION IN APPLICATION OF THE FILING OF THIS CONTINUATION APPLICATION.	
	[ ] [ ]	Divisional. Continuation. Continuation-in-part (C-I-P).	

## 2. Benefit of Prior U.S. Application(s) (35 U.S.C. Sections 119(e), 120, or 121)

NOTE: A nonprovisional application may claim an invention disclosed in one or more prior filed copending nonprovisional applications or copending international applications designating the United States of America. In order for a nonprovisional application to claim the benefit of a prior filed copending nonprovisional application or copending international application designating the United States of America, each prior application must name as an inventor at least one inventor named in the later filed nonprovisional application and disclose the named inventor's invention claimed in at least one claim of the later filed nonprovisional application in the manner provided by the first paragraph of 35 U.S.C. Section 112. Each prior application must also be:

- (I) An international application entitled to a filing date in accordance with PCT Article 11 and designating the United States of America; or
- (ii) Complete as set forth in Section 1.51(b); or
- (iii) Entitled to a filing date as set forth in Section 1.53(b) or Section 1.53(d) and include the basic filing fee set forth in Section 1.16; or
- (iv) Entitled to a filing date as set forth in Section 1.53(b) and have paid therein the processing and retention fee set forth in Section 1.21(l) within the time period set forth in Section 1.53(f).

37 C.F.R. Section 1.78(a)(1).

WARNING:

If an application claims the benefit of the filing date of an earlier filed application under 35 U.S.C. §§120, 121 or 365(c), the 20-year term of that application will be based upon the filing date of the earliest U.S. application that the application makes reference to under 35 U.S.C. §§ 120, 121 or 365(c). (35 U.S.C. 154(a)(2) does not take into account, for the determination of the patent term, any application on which priority is claimed under 35 U.S.C. §§ 119, 365(a) or 365(b).) For a C-I-P application, applicant should review whether any claim in the patent that will issue is supported by an earlier application and, if not, the applicant should consider canceling the reference to the earlier filed application. The term of a patent is not based on a claim-by-claim approach. See Notice of April 14, 1995, 60 Fed. Reg. 20,195, at 20,205.

WARNING:

37 C.F.R. § 1.78(a)(2) deals with the time in which the claim for the benefit of an earlier filing date must be made and states:

"(2)(i) Except for a continued prosecution application filed under § 1.53(d), any nonprovisional application or international application designating the United States of America claiming the benefit of one or more prior-filed copending nonprovisional applications or international applications designating the United States of

America must contain or be amended to contain a reference to each such prior-filed application, identifying it by application number (consisting of the series code and serial number) or international application number and international filing date and indicating the relationship of the applications. Cross references to other related applications may be made when appropriate (see § 1.14).

- (ii) This reference must be submitted during the pendency of the later-filed application. If the later-filed application is an application filed under 35 U.S.C. 111(a)(, this reference must also be submitted within the later of four months from the actual filing date of the later-filed application or sixteen months from the filing date of the prior-filed application. If the laterOfiled application is a nonprovisional application which entered the national stage from an international application after compliance with 35 U.S.C. 371, this reference must also be submitted within the later of four months from the date on which the national stage commenced under 35 U.S.C. 371(b) or (f)( in the later-filed international application sixteen months from the filing date of the prior-filed application. These time periods are not extendable. Except as provided in paragraph (a)((3)( of this section, the failure to timely submit the reference required by 35 U.S.C. 120 and paragraph (a)(2)(i) of this section is considered a waiver of any benefit under 35 U.S.C. 120, 121, or 365(c) to such prior-filed application. The time periods in this paragraph do not apply if the later-filed application is:
  - (A) An application for a design patent;
  - (B) An application filed under 35 U.S.C. 111(a) before November 29, 2000; or
  - (C) A nonprovisional application which entered the national stage after compliance with 35U.S.C. 371 from an international application filed under 35 U.S.C. 363 before November 29, 2000..
- (iii) If the later-filed application is a nonprovisional application, the reference required by this paragraph must be included in an application data sheet (§ 1.76), or the specification must contain or be amended to contain such reference in the first sentence following the title.
- (iv) The request for a continued prosecution application under § 1.53(d) is the specific reference required by 35 U.S.C. 120 to the prior-filed application. The identification of an application by application number under this section is teg identification of every application assigned that application number necessary for a specific reference required by 35 U.S.C. 120 to every such application assigned that application number."
- NOTE: If the new application being transmitted is a divisional, continuation or a continuation-in-part of a parent case, or where the parent case is an International Application which designated the U.S., or benefit of a prior provisional application is claimed, then check the following item and complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.
  - [X] The new application being transmitted claims the benefit of prior U.S. application(s). Enclosed are ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

## 3. Papers Enclosed

<b>A.</b>	Required for Filing Date under 37 C.F.R. Section 1.53(b) (Regular) or 37 C.F.R. Section 1.153 (Design) Application
	7 Pages of Specification
	1 Pages of Claims1 Sheets of Drawing

**WARNING:** 

DO NOT submit original drawings. A high quality copy of the drawings should be supplied when filing a patent application. The drawings that are submitted to the Office must be on strong, white, smooth, and non-shiny paper and meet the standards according to Section 1.84. If corrections to the drawings are necessary, they should be made to the original drawing and a high-quality copy of the corrected original drawing then submitted to the Office. Only one copy is required or desired. For comments on proposed then-new 37 C.F.R. 1.84, see Notice of March 9, 1988. (1990 O.G. 57-62).

NOTE: "Identification of drawings. Identifying indicia, if provided, should include the title of the invention, inventor's name and application number, or docket number (if any) if an application number has not been assigned to the application. If this information is provided, it must be placed on the front of each sheet and centered within the top margin."

(complete the following, if applicable)

[ ] The enclosed drawing(s) are photograph(s).

NOTE: 37 C.F.R. 1.84 "(b) Photographs.

"(1) Black and white. Photographs, including photocopies of photographs, are not ordinarily permitted in utility and design patent applications. The Office will accept photographs in utility and design patent applications, however, if photographs are the only practicable medium for illustrating the claimed invention. For example, photographs, or photomicrographs of: electrophoresis gels, blots (e.g., immunological, western, Southern and northern), auto radiographs, cell cultures (stained and unstained), histological tissue cross sections (stained and unstained), animals, plants, in vivo imaging, thin layer chromatography plates, crystalline structures, and in a design patent application, ornamental effects, are acceptable. If the subject matter of the application admits of illustration by a drawing, the examiner may require a drawing in place of the photograph. The photographs must be of sufficient quality so that all details in the photographs are reproducible in the printed patent.

"(2) Color photographs. Color photographs will be accepted in utility and design patent applications if the conditions for accepting color drawings and black and white photographs have been satisfied. See paragraphs (a)(2) and (b)(1) of this section."

[ ] The enclosed drawing(s) are in color. Three (3) sets of color drawings and a "PETITION TO ACCEPT COLOR DRAWING(S)" are attached. 37 C.F.R. §§ 1.84(a)(2) and 1.84(b).

NOTE: 37 C.F.R. 1.84(a)

"(2) Color. On rare occasions color drawings may be necessary as the only practical medium by which to disclose the subject matter sought to be patented in a utility or design patent application or the subject matter of a statutory invention registration. The color drawings must be of sufficient quality such that all details in the drawings are reproducible in black and white in the printed patent. Color drawings are not permitted in international applications (see PCT Rule 11.13), or in an application, or copy thereof, submitted under the Office electronic filing system. The Office will accept color drawings in utility or design patent applications and statutory invention registrations only after granting a petition filed under this paragraph explaining why the color drawings are necessary. Any such petition must include the following:

- (i) The fee set forth in  $\S 1.17(h)$ ;
- (ii) Three (3) sets of color drawings;
- (iii) A black and white photocopy that accurately depicts, to the extent possible, the subject matter shown in the color drawing; and

		(iv) An amendment to the specification to insert (unless the specification contains or has been previously amended to contain) the following language as the first paragraph of the brief description of the drawings:						
		"The patent or application file contains at least one drawing executed in color. Copies of this patent or patent application publication with color drawing(s) will be provided by the Office upon request and payment of the necessary fee."						
	[]	Formal Informal						
	В.	Other Papers Enclosed Pages of declaration and power of attorney Pages of Abstract Other						
4.	Addi	Additional Papers Enclosed						
	[X]	Preliminary Amendment Information Disclosure Statement (37 C.F.R. Section 1.98)						
WARNI	NG:	In order to ensure consideration of information previously submitted but which has not been considered in the parent application, an applicant must resubmit the information, complying with 37 C.F.R. § 1.97 and 37 C.F.R. § 1.98, in the continuing application filed under 37 C.F.R. § 1.53(b). See § 609B(3), M.P.E.P., 7 <sup>th</sup> Edition, Rev. 1.						
	[]	Form PTO-1449 (PTO/SB/08A and 08B) Citations						
	[]	Statement of Biological Deposit Submission of "Sequence Listing," computer readable copy and/or amendment pertaining thereto for biotechnology invention containing nucleotide and/or amino acid sequence.						
	[]	Authorization of Attorney(s) to Accept and Follow Instructions from Representative Special Comments						
	[]	Request for Nonpublication of Application Other						

5.	Declaration or Oath (including power of attorney)
NOTE:	A newly executed declaration is not required in a continuation or divisional application nonprovisional application contained a declaration as required, the application being finall the inventors named in the prior application, there is no new matter in the application

cation provided the prior iled is by all or fewer than being filed, and a copy of the executed declaration filed in the prior application (showing the signature or an indication thereon that it was signed) is submitted. The copy must be accompanied by a statement requesting deletion of the names of person(s) who are not inventors of the application being filed. If the declaration in the prior application was filed under Section 1.47 then a copy of that declaration must be filed accompanied by a copy of the decision granting Section 1.47 status or, if a nonsigning person under Section 1.47 has subsequently joined in a prior application, then a copy of the subsequently executed declaration must be filed. See 37 C.F.R. Section 1.63(d)(1)-(3).

NOTE: A declaration filed to complete an application must be executed, identify the specification to which it is directed, identify each inventor by full name, including the family name, and at least one given name without abbreviation together with any other given name or initial, and the residence, post office address and country of citizenship of each inventor, and state whether the inventor is a sole or joint inventor. 37 C.F.R. Section 1.63(a)(1)-(4).

NOTE: The inventorship of a nonprovisional application is that inventorship set forth in the oath or declaration as prescribed by Section 1.62, except as provided for in Section 1.53(d)(4) and Section 1.63(d). If an oath or declaration as prescribed by Section 1.63 is not filed during the pendency of a nonprovisional application, the inventorship is that inventorship set forth in the application papers filed pursuant to Section 1.53(b), unless a petition under this paragraph accompanied by the fee set forth in Section 1.17(I) is filed supplying or changing the name or names of the inventor or inventors. 37 C.F.R. Section 1.41(a)(1).

[]	Enclosed						
	Execu	ted by					
			(check all applicable boxes)				
	[ ] [ ]	joint i	or(s). representative of inventor(s). 37 C.F.R. Section 1.42 or 1.43. representative of inventor(s) a proprietary interest on behalf of inventor refused to sign or cannot be reached.				
		[]	This is the petition required by 37 C.F.R. Section 1.47 and the statement required by 37 C.F.R. Section 1.47 is also attached. See item 13 below for fee.				
[X]	Not E	nclosed.					

Where the filing is a completion in the U.S. of an International Application, or where the completion of the U.S. application contains subject matter in addition to the International Application, the application may be treated as a continuation or continuation-in-part, as the case may be, utilizing ADDED PAGE FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION CLAIMED.

> Application is made by a person authorized under 37 C.F.R. 1.41 on behalf [X] of all the above named inventor(s).

[ ] Showing that the filing is authorized. (not required unless called into question. 37 C.F.R. Section 1.41(d))

## 6. **Inventorship Statement WARNING:** If the named inventors are each not the inventors of all the claims an explanation, including the ownership of the various claims at the time the last claimed invention was made, should be submitted. The inventorship for all the claims in this application are: The same. or [] Not the same. An explanation, including the ownership of the various claims at the time the last claimed invention was made, is submitted. [] will be submitted. 7. Language An application including a signed oath or declaration may be filed in a language other than English. An English NOTE: translation of the non-English language application and the processing fee of \$130.00 required by 37 C.F.R. Section 1.17(k) is required to be filed with the application, or within such time as may be set by the Office. 37 C.F.R. Section [X] English [] Non-English The attached translation includes a statement that the translation is accurate. [ ] 37 C.F.R. Section 1.52(d). 8. Assignment An assignment of the invention to COUNCIL OF SCIENTIFIC AND [X]INDUSTRIAL RESEARCH [ ] is attached. A separate [ ] "COVER SHEET FOR ASSIGNMENT (DOCU-MENT) ACCOMPANYING NEW PATENT APPLICATION" or [ ]

NOTE: "If an assignment is submitted with a new application, send two separate letters-one for the application and one for the assignment" Notice of May 4, 1990 (1114 O.G. 77-78).

has been recorded at Reel\_\_\_\_\_\_, Frame\_\_\_\_\_ on \_\_\_

FORM PTO 1595 is also attached.

will follow.

[X]

[]

WARNING: A newly executed "STATEMENT UNDER 37 C.F.R. Section 3.73(b)" must be filed when a continuationin-part application is filed by an assignee. Notice of April 30, 1993, 1150 O.G. 62-64.

#### 9. Certified Copy

Certified copy(ies) of application(s)

(	Country	Appln. no.	Filed	
(	Country	Appln. no.	Filed Filed	
(	Country	Appln. no.		
from which	priority is claimed			
[ ]	is (are) attached.			
[ ] will follow.				
	was filed in parent appl	ication		

NOTE: 37 C.F.R. §1.55. Claim for foreign priority.

"(a) \* \* \*

(1)(i) In an original application filed under 35 U.S.C. 111(a), the claim for priority must be presented during the pendency of the application, and within the later of four months from the actual filing date of the application or sixteen months from the filing date of the prior foreign application. This time period is not extendable. The claim must identify the foreign application for which priority is claimed, as well as any foreign application for the same subject matter and having a filing date before that of the application for which priority is claimed, by specifying the application number, country (or intellectual property authority), day, month, and year of its filing. The time periods in this paragraph do not apply in an application under 35 U.S.C. 111(a) if the application is:

- (A) A design application; or
- (B) An application filed before November 29, 2000.

\* \* \* \*

- (C) Unless such claim is accepted in accordance with the provisions of this paragraph, any claim for priority under 35 U.S.C. 119(a)-(d) or 365(a) not presented within the time period provided by paragraph (a) of this section is considered to have been waived. If a claim for priority under 35 U.S.C. 119(a)-(d) or 365(a) is presented after the time period provided by paragraph (a) of this section, the claim may be accepted if the claim identifying the prior foreign application by specifying its application number, country (or intellectual property authority), and the day, month, and year of its filing was unintentionally delayed. A petition to accept a delayed claim for priority under 35 U.S.C. 119(a)-(d) or 365(a) must be accompanied by:
  - (1) The claim under 35 U.S.C. 119(a)-(d) or 365(a) and this section to the prior foreign application, unless previously submitted;
  - (2) The surcharge set forth in § 1.17(t); and
  - (3) A statement that the entire delay between the date the claim was due under paragraph (a)(1) of this section and the date of the claim was filed was intentional. The Commissioner may require additional information where there is a question whether the delay was intentional."

NOTE: 37 C.F.R. § 1.63 Oath or declaration.

"(a) An oath or declaration filed under § 1.51(b)(2) as a part of a nonprovsional application must:

\* \* \* \*

NOTE:

- (c) Unless such information is supplied on an application data sheet in accordance with  $\S$  1.76, the oath or declaration must also identify:
  - (2) An foreign application for patent (or inventor's certificate) for which a claim for priority is made pursuant to § 1.55, and any foreign application having a filing date before that of the application on which priority is claimed, by specifying the application number, country, day, month and year of its filing."

The foreign application forming the basis for the claim for priority must be referred to in the oath or declaration. 37 C.F. R. § 1.55(a) and 1.63.

NOTE: This item is for any foreign priority for which the application being filed directly relates. IF any parent U.S. application or international Application form which this application claims benefit under 35 U.S.C. § 120 is itself entitled to priority from a prior foreign application, then complete item 18 on the ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

## 10. Fee Calculation (37 C.F.R. Section 1.16)

A. [X] Regular application

		CLAIMS AS	FILED		
Claims	Number Filed	Basic Fee Allowance	Number Extra	Rate	Basic Fee 37 C.F.R. Section 1.16(a) \$770.00
Total Claims (37 C.F.R. Section 1.16(c))	6	-20 =	x	\$ 18.00	
Independent Claims (37 C.F.R. Section 1.16(b))	1	- 3 =	x	\$ 86.00	
Multiple Dependent Claim(s), if any (37 C.F.R. Section 1.16(d))				\$290.00	NOT PAID AT THIS TIME

C.F.R. on 1.16(	b))	1	- 3 =	x	\$ 86.00	
ple Dep n(s), if a l.F.R. on 1.16(	ny				\$290.00	NOT PAID AT THIS TIME
expiration	Amendment d Fee for extra descriptions of the control of the contr	eleting mult claims is no are not paid on	tiple-depender t being paid a n filing they must	t be paid or the claims	s canceled by a	nendment, prior to the se of fee deficiency. 37
			Filing	Fee Calculation	\$_	770.00

В.	[ ] Design application (\$340.0037 C.F.R. Section 1.16(f)) Filing Fee Calculation	\$						
C.	[ ] Plant application (\$530.0037 C.F.R. Section 1.16(g)) Filing Fee Calculation	\$						
11.	Small Entity Statement(s)							
[]	Statement(s) or Written Assertion(s) that this is a filing by a small entity under 37							
[]	C.F.R. Section 1.9 and 1.27 is (are) attached.  Applicant hereby asserts small entity status by paying the small entity filing fee.							
	R. $\S$ 1.27(c) deals with the assertion of small entity status; whether by a written spy yment as a small entity of the basic filing fee or the fee for the entry into the national							
	"(c) Assertion of small entity status. Any party (person, small business concern a should make a determination, pursuant to paragraph (f) of this section, of entitled entity status based on the definitions set forth in paragraph (a) of this section establish small entity status for the purpose of paying small entity fees, actual entitlement to small entity status, in the manner set forth in paragraphs (c)(1) of the application patent in which such small entity fees are to be paid.	nent to be accorded small on, and must, in order to lly make an assertion of						

- (1) Assertion by writing. Small entity status may be established by a written assertion of entitlement to small entity status. A written assertion must:
  - (i) Be clearly identifiable;

NOTE:

- (ii) Be signed (see paragraph (c)(20 of this section); and
- (iii) Convey the concept of entitlement to small entity status, such as by stating that applicant is a small entity, or that small entity status is entitled to be asserted for the application or patent. While no specific words or wording are required to assert small entity status, the intent to assert small entity status must be clearly indicated in order to comply with the assertion requirement.
- (2) Parties who can sign and file the written assertion. The written assertion can be signed by:
  - (i) One of the parties identified in § 1.33(b) (e.g., an attorney or agent registered with the Office), § 3.73(b) of this chapter notwithstanding, who can also file the written assertion;
  - (ii) At least one of the individuals identified as an inventor (even though a § 1.63 executed oath or declaration has not been submitted), not withstanding § 1.33(b)(4), who can also file the written assertion pursuant to the exception under § 1.33(b) of this part; or
  - (iii) An assignee of an undivided part interest, notwithstanding §§ 1.33(b)(3) and 3.73(b) of this chapter, but the partial assignee cannot file the assertion without resort to a party identified under § 1.33(b) of this part.

- (3) Assertion by payment of the small entity basic filing or basic national fee. The payment, by any party, of the exact amount of one of the small entity basic filing fees set forth in §§ 1.16(a), (f), (g), (h), or (k), or one of the small entity basic national fees set forth in §§ 1.492(a)(1), (a)(2), (a)(3), (a)(4), or (a)(5), will be treated as a written assertion of entitlement to small entity status even if the type of basic filing or basic national fee is inadvertently selected in error.
  - (i) If the Office accords small entity status based on payment of a small entity basic filing or basic national fee under paragraph (c)(3) of this section that is not applicable to that application, any balance of the small entity fee that is applicable to that application will be due along with the appropriate surcharge set forth in § 1.16(e), or § 1.16(l).
  - (ii) The payment of any small entity fee other than those set forth in paragraph (c)(3) of this section (whether in the exact fee amount or not) will not be treated as a written assertion of entitlement to small entity status and will not be sufficient to establish small entity status in an application or a patent."

**WARNING**:

37 C.F.R. § 1.27(c)(4): "Assertion required in related, continuing, and reissue applications. Status as a small entity must be specifically established by an assertion in each related, continuing and reissue application in which status is appropriate and desired. Status as a small entity in one application or patent does not affect the status of any other application or patent, regardless of the relationship of the applications or patents. The refiling of an application under § 1.53 as a continuation, divisional, or continuation-in-part application (including a continued prosecution application under § 1.53(d)), or the filing of a reissue application, requires a new assertion as to continued entitlement to small entity status for the continuing or reissue application."

**WARNING**:

"Small entity status must not be established when the person or persons signing the . . . statement can unequivocally make the required self-certification." M.P.E.P. Section 509.03, 6th ed., rev. 2, July 1996 (emphasis added).

(complete the following, if applicable)

[ ]		_	aimed in prior applicatio		eing claim	ed for this
	35 U.S.C. Section	[ ] [ ] [ ]	119(e) - provisional, 120 - continuation, 121- divisional, 365(c) - PCT, continuation-in-part tity is still proper and de	esired.		
	[ ] A copy of the	ne statemer	nt or written assertion in	the prior ap	plication is	s included.
	Filing Fee Calculation	on (50% of	f A, B or C above)	;	\$	

NOTE: A refund based on establishment of small entity status, of a portion of fees timely paid in full prior to establishing status as a small entity may only be obtained if an assertion under § 1.27(c) and a request for a refund of the excess amount are filed within three months of the date of the timely payment of the full fee. The three-month time period is not extendable under § 1.136. 37 C.F.R. § 1.28(a).

12. Request for International-Type Search (37 C.F.R. Section 1.104(d))				
			(complete, if applicable)	
	[]		prepare an international-type search report for this applic all examination on the merits takes place.	ation at the time when
13.	Fee Pa	yment E	Being Made at This Time	
	[X]	Not En	closed	
		[X]	No filing fee is to be paid at this time and any and all p are revoked.  (This and the surcharge required by 37 C.F.R. Section subsequently.)	
	[]	Enclose	ed	
		[]	Filing fee	\$
		[]	Recording assignment (\$40.00; 37 C.F.R. Section 1.21(h)) (See attached "COVER SHEET FOR ASSIGNMENT ACCOMPANYING NEW APPLICATION.")	\$
		[]	Petition and fee for filing by other than all the inventors or person on behalf of the inventor where inventor refused to sign or cannot be reached (\$130.00; 37 C.F.R. Sections 1.47 and 1.17(I))	\$
		[ ]	For processing an application with a specification in a non-English language (\$130.00; 37 C.F.R. Sections 1.52(d) and 1.17(k))	\$
		[]	Processing and retention fee (\$130.00; 37 C.F.R. Sections 1.53(d) and 1.21(l))	\$
		[ ]	Fee for international-type search report (\$40.00; 37 C.F.R. Section 1.21(e))	\$
NOTE:	to comp 1.53 and	lete the app d 1.78(a)(1 paid, or the	1.21(1) establishes a fee for processing and retaining any application the clication pursuant to 37 C.F.R. Section 1.53(f) and this, as well as the c), indicate that in order to obtain the benefit of a prior U.S. applicatio e processing and retention fee of Section 1.21(1) must be paid, within 1 y	hanges to 37 C.F.R. Section n, either the basic filing fee
			Total Fees Enclosed	\$

	[ ]	Check	in the amount of \$
	[]		Account No. 12-0425 in the amount of \$ icate of this transmittal is attached.
15.	Author	rization	to Charge Additional Fees
WARNI	NG:	If no fees	are to be paid on filing, the following items should <u>not</u> be completed.
WARNI	NG:		ly count claims, especially multiple dependent claims, to avoid unexpected high charges, if extra arges are authorized.
	[]		ommissioner is hereby authorized to charge the following additional fees by this and during the entire pendency of this application to Account No
		[]	37 C.F.R. Section 1.16(a), (f) or (g) (filing fees)
		[]	37 C.F.R. Section 1.16(b), (c) and (d) (presentation of extra claims)
NOTE:	be paid o in any no	or these clo otice of fe	l fees for excess or multiple dependent claims not paid on filing or on later presentation must only aims canceled by amendment prior to the expiration of the time period set for response by the PTO e deficiency (37 C.F.R. Section 1.16(d)), it might be best not to authorize the PTO to charge es, except possibly when dealing with amendments after final action.
		[]	37 C.F.R. Section 1.16(e) (surcharge for filing the basic filing fee and/or declaration on a date later than the filing date of the application)
		[]	37 C.F.R. Section 1.17(a)(1)-(5) (extension fees pursuant to Section 1.136(a).
		[]	37 C.F.R. Section 1.17 (application processing fees)
NOTE:	requiring for exten Section I in any c submission extension	g a petition sion of tin 1.17, or all oncurrent on. Submi n of time in	may be submitted in an application that is an authorization to treat any concurrent or future reply, for an extension of time under this paragraph for its timely submission, as incorporating a petition ne for the appropriate length of time. An authorization to charge all required fees, fees under required extension of time fees will be treated as a constructive petition for an extension of time or future reply requiring a petition for an extension of time under this paragraph for its timely ssion of the fee set forth in Section 1.17(a) will also be treated as a constructive petition for an any concurrent reply requiring a petition for an extension of time under this paragraph for its 137 C.F.R. Section 1.136(a)(3).
NOTE:	an indivi pay fees of generally notice of	dual appl and specif not be tr allowance	rovides that an authorization to charge the issue fee (§ 1.18) to a deposit account may be filed in ication only after the mailing of the notice of allowance. Accordingly, general authorizations to ic authorizations to pay the issue fee that are filed prior to the mailing of a notice of allowance will eated as requesting payment of the issue fee and will not be given effect to act as a reply to the e Applicant, when paying the issue fee, should submit a new authorization to charge fees, such as 66 on the current PTOL-85B form. Where no reply to the notice of allowance is received, the

application will stand abandoned notwithstanding the presence of general authorizations to pay fees or a specific authorization to pay the issue fee that were submitted prior to mailing of the notice of allowance. Where an attempt is made to pay the issue fee but an incorrect amount is submitted, § 1.311(b)(1), or where the Office's issue fee transmittal form (currently PTOL-85(B)) is completed by applicant and submitted, § 1.311(b)(2), in reply to a notice of allowance, an exception will be made. Such submissions will operate as a request to charge the issue fee to any deposit account identified in a previously filed (i.e., submitted prior to the mailing of the notice of allowance) authorization to charge fees, and will be allowed to act as payment of he correct issue fee. § 1.311(b). See also the

change to § 1.26(b). Notice of September 8, 2000, Fed. Reg. 54603-54683, at 54646 and 54647.

14.

**Method of Payment of Fees** 

NOTE: 37 C.F.R. Section 1.28(b) requires "Notification of any change in status resulting in loss of entitlement to small entity status must be filed in the application . . . prior to paying, or at the time of paying, . . issue fee." From the wording of 37 C.F.R. Section 1.28(b), (a) notification of change of status must be made even if the fee is paid as "other than a small entity" and (b) no notification is required if the change is to another small entity.

## 16. Instructions as to Overpayment

NOTE:	" Amounts of twenty-five dollars or less will not be returned unless specifically requested within a reasonable time, nor will the payer be notified of such amounts; amounts over twenty-five dollars may be returned by check or, if requested, by credit to a deposit account." 37 C.F.R. Section 1.26(a).		
	[]	Credit Account No	
	[]	Refund	

SIGNATURE OF PRACTITIONER

JULIAN H. COHEN (type or print name of practitioner)

LADAS & PARRY

P.O. Address

26 WEST 61<sup>ST</sup> STREET

NEW YORK, NEW YORK 10023

Tel. No.: (212)708-1887

Customer No.: 00140

## [X] Incorporation by reference of added pages

(check the following item if the application in this transmittal claims the benefit of prior U.S. application(s) (including an international application entering the U.S. stage as a continuation, divisional or C-I-P application) and complete and attach the ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED)

	[X]	Plus Added Pages for New Application Transmittal Where Benefit of Prior U.S Application(s) Claimed  Number of pages added8	
	[]	Plus added pages deleting names of inventor(s) named on prior application(s) who is/are no longer inventor(s) of the subject matter claimed in this application.	
		Number of pages added	
[]	Statement Where No Further Pages Added		
		(if no further pages form a part of this Transmittal, then end this Transmittal with this page and check the following item)	
	[]	This transmittal ends with this page.	

## ADDED PAGES FOR APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED

NOTE: See 37 CFR 1.78.

#### 17. Relate Back

WARNING: If an application claims the benefit of the filing date of an earlier filed application under 35 U.S.C. 120, 121 or 365(c), the 20-year term of that application will be based upon the filing date of the earliest U.S. application that the application makes reference to under 35 U.S.C. 120, 121 or 365(c). (35 U.S.C. 154(a)(2) does not take into account, for the determination of the patent term, any application on which priority is claimed under 35 U.S.C. 119, 365(a) or 365(b).) For a c-i-p application, applicant should review whether any claim in the patent that will issue is supported by an earlier application and, if not, the applicant should consider canceling the reference to the earlier filed application. The term of a patent is not based on a claimby-claim approach. See Notice of April 14, 1995, 60 Fed. Reg. 20,195, at 20,205.

(complete the following, if applicable)

[X] A separate Preliminary Amendment amends the specification by inserting, before the first line, the following paragraph:

#### A. 35 U.S.C. 119(e)

NOTE: 37 C.F.R. § 1.78(a)(4) and (5):

(4) A nonprovisional application, other than for a design patent, or an international application designating the United States of America may claim an invention disclosed in one or more prior-filed provisional applications. In order for an application to claim the benefit of one or more prior-filed provisional applications, each prior-filed provisional application must name as an inventor at least one inventor named in the later-filed application and disclose the named inventor's invention claimed in at least one claim of the later filed application in the manner provided by the first paragraph of 35 U.S.C. 112. In addition, each prior-filed provisional application must be entitled to a filing date as set forth in § 1.53(c), and the basic filing fee set forth in § 1.16(k) must be paid within the time period set forth in § 1.53(g).

(5)(i) Any nonprovisional application or international application designating the United States of America claiming the benefit of one or more prior-filed provisional applications must contain or be amended to contain a reference to each such prior-filed provisional application, identifying it by the provisional application number (consisting of series code and serial number).

(ii) This reference must be submitted during the pendency of the later-filed application. If the later-filed application is an application filed under 35 U.S.C. 111(a), this reference must also be submitted within the later of four months from the actual filing date of the later-filed application or sixteen months from the filing date of the prior-filed provisional application. IF the later-filed application is a nonprovisional application which entered the national stage from an international application after compliance with 35 U.S.C. 371, this reference must also be submitted within the later of four months from the date on which the national state commenced under 35 U.S.C. 371(b) or (f) in the later-filed international application or sixteen months from the filing date of the prior-filed provisional application. These time periods are not extendable. Except as provided in paragraph (a)(6) of this section, the failure to timely submit the reference is considered a waiver of any benefit under 35 U.S.C. 119(e) to such prior-filed provisional application. The time periods in this paragraph do not apply if the later-filed application is:

(Added Pages for Application Transmittal Where Benefit of Prior U.S. Application(s) Claimed-page 1 of 8) 4-1.4

- (A) An application filed under 35 U.S.C. 111(a) before November 29,, 2000; or
- (B) A nonprovisional application which entered the national stage after compliance with 35 U.S.C. 371 from an international application filed under 35 U.S.C. 363 before November 29, 2000.
- (iii) If the later-filed application is a nonprovisional application, the reference required by this paragraph must be included in an application data sheet (§ 1.76), or the specification must contain or be amended to contain such reference in the first sentence following the title."
- [X] "This application claims the benefit of U.S. Provisional Application(s) No(s).:

APPLICATION NO(S).:	FILING DATE
60 / 459,141	MARCH 31, 2003
/	<del></del>
and incorporates the same by reference."	
and an English-language translation of the translation is accurate were not previously nonprovisional application, applicant will be language translation of the non-English-lan	I provisional application was filed in a language other than English the prior-filed provisional application and a statement that the filed in the prior-filed provisional application or the later-filed enotified and given a period of time within which to file an English-aguage prior-filed provisional application and a statement that the visional application failure to timely reply to such a notice will result
Language of Prior Fil	led Provisional Application
(Supply information for <u>each</u> provisi	onal the benefit of which is being claimed)
The above identified prior filed provisional applic	cation whose benefit is being claimed
[X] was filed in the English language,	
[ ] was filed in a language other than English that the translation is accurate was filed in	h and an English translation along with a statement in the provisional application, or
[ ] was filed in language other than English that the translation is accurate is filed her	and an English translation along with a statement rewith.

## B. 35 U.S.C. 120, 121 and 365(c)

WARNING: The applicable provisions for the time and manner of claiming the benefit of a prior U. S. application filing date are set forth in 37 C.F.R. § 1.78(a)(1) and (2) as follows:.

"(a)(1) A nonprovisional application or international application designating the United States of America may claim an invention disclosed in one or more prior-filed copending nonprovisional applications or international applications designating the United States of America. In order for an application to claim the benefit of a prior-filed copending nonprovisional application or international application designating the United States of America, each prior-filed application must name as an inventor at least one inventor named in the later-filed application and disclose the named inventor's invention claimed in at least one claim of the later-filed application in the manner provided by the first paragraph of 35 U.S.C. 112. In addition, each prior-filed application must be:

(i) An international application entitled to a filing date in accordance with PCT Article 11 and designating

(Added Pages for Application Transmittal Where Benefit of Prior U.S. Application(s) Claimed-page 2 of 8) 4-1.4

- (ii) Complete as set forth in § 1.51(b); or
- (iii) Entitled to a filing date asset forth in § 1.53(b) or § 1.53(d) and include the basic filing fee set forth in § 1.16; or
- (iv) Entitled to a filing date as set forth in § 1.53(b) and have paid therein the processing and retention fee set forth in § 1.21(l) within the time period set forth in § 1.53(f).
- (2)(i) Except for a continued prosecution application filed under § 1.53(d), any nonprovisional application or international application designating the United States of America claiming the benefit of one or more prior-filed copending nonprovisional applications or international applications designating the United States of America must contain or be amended to contain a reference to each such prior-filed application, identifying it by application number (consisting of the series code and serial number) or international application number and international filing date and indicating the relationship of the applications. Cross references to other related applications may be made when appropriate (see § 1.14).
  - (ii) This reference must be submitted during the pendency of the later-fled application. If the later-filed application is an application filed under 35 U.S.C.. 111(a), this reference must also be submitted within the later of four months from the actual filing date of the later-filed application or sixteen months from the filing date of the prior-filed application. If the later-filed application is a nonprovisional application which entered the national stage form an international application after compliance with 35 U.S.C. 371, this reference must also be submitted within the later of four months from the date on which the national stage commenced under 35 U.S.C. 371(b) or (f) in the later-filed international application or sixteen months from the filing date of the prior-filed application. These time periods are not extendable. Except as provided in paragraph (a)(3) of this section, the failure to timely submit the reference required by 35 U.S.C. 120 and paragraph (a)(2)(i) of this section is considered a waiver of any benefit under 35 U.S.C. 120, 121, or 365(c) to such prior-filed application. The time periods in this paragraph do not apply of the later-filed application is:
    - (A) An application for a design patent;
    - (B) An application filed under 35 U.S.C. 111(a) before November 29, 2000; or
  - (C) A nonprovisional application which entered the national stage after compliance with 35 U.S.C. 371 from an international application filed under 35 U.S.C. 363 before November 29, 2000.
  - (iii) If the later-filed application is a nonprovisional application, the reference required by this paragraph must be included in an application data sheet (§ 1.76), or the specification must contain or be amended to contain such reference in the first sentence following the title.
  - (iv) The request for a continued prosecution application under § 1.53(d) is the specific reference required by 35 U.S.C. 120 to the prior-filed application. The identification of an application by application number under this section is the identification of every application assigned that application number necessary for a specific reference required by 35 U.S.C. 120 to every such application assigned that application number."

[]"]	This application is a
[	] continuation
[	] continuation-in-part
[	] divisional
of cop	ending
	oplication number filed on hich is

[ ]	International Application	filed on _		, which
	designated the U.S.,			
	claims the benefit thereof and in	corporates the sam	e by reference."	
		F	,	
NOTE:	The proper reference to a prior filed PC number and the filing date of the PCT a			l phase is the U.S. serial
NOTE:	(1) Where the application being transm can be as a continuation-in-part or (2) continuation.			••
[ ]	"The nonprovisional application	designated above, a	namely application in the benefit of U.S.	on . Provisional
APPL	ICATION NO(S).:	F	ILING DATE	
	,			
	/			
	_/		<del></del>	··
and inc	corporates the same by reference"			
C. Pu	blication of International Applic	cation-Provisional	Application	
NOTE:	35 U.S.C. 154 Contents and term of pai	tent; provisional rights		
	(d)(4) REQUIREMENTS FOR	INTERNATIONAL API	PLICATIONS-	
commen internati English,	(A) EFFECTIVE DATE—The rig ion under the treaty defined in section . ce on the date on which the Patent and ional application, or, if the publication u on the date on which the Patent and Tra language.	351(a) of an internatio Trademark Office recei inder the treaty of the i	nal application des ives a copy of the po nternational applica	ignating the United States sho ublication under the treaty of t ution is in a language other the
The int	ternational application correspond	ing to the instant ap	plication	
	was was not			
publish	ned under PCT Article 21(2) in the	e English language.		
[]	An English translation of the	e international appli	ication is attache	d.

#### 18. Relate Back—35 U.S.C. 119 Priority Claim for Prior Application

NOTE: 37 C.F.R. § 1.55 Claim for foreign priority.

"(a) An applicant in a nonprovisional application may claim the benefit of the filing date of one or more prior foreign applications under the conditions specified in 35 U.S.C. 119(a) through (d) and (f)(, 172, and 365(a) and (b).

(1)(i) In an original application filed under 35 U.S.C. 111(a), the claim for priority must be presented during the pendency of the application, and within the later of four months from the actual filing date of the application or sixteen months from the filing date of the prior foreign application. this time period is not extendable. The claim must identify the foreign application for which priority is claimed, as well as any foreign application for the same subject matter and having a filing date before that of the application for which priority is claimed, by specifying the application number, country (or intellectual property authority), day, month, and year of its filing. The time period in this paragraph does not apply to an application for a design patent.

- (ii) In an application that entered the national stage from an international application after compliance with 35 U.S.C. 371, the claim for priority must be made during the pendency of the application and within the time limit set forth in the PCT and the Regulations under the PCT."
- (2) The claim for priority and the certified copy of the foreign application specified in 35 U.S.C. 119(b) or PCT Rule 17 must, in any event, be filed before the patent is granted. If the claim for priority or the certified copy of the foreign application is filed after the date the issue fee is paid, it must be accompanied by the processing fee set forth in § 1.17(i), but the patent will not include the priority claim unless corrected by a certificate of correction under 35 U.S.C. 255 and § 1.323.

The prior U.S. application(s), including any prior International Application designating the U.S., identified above in item 17B, in turn itself claim(s) foreign priority(ies) as follows:

Country	Appln. no.	Filed	
Country	Appln. no.	Filed	
The certified copy(ie	s) has (have)		
[ ] been filed on	, in prior U. S. national (not PCT) application, which was filed on		
[ ] is (are) attached.			
[ ] will follow.			
WADNING: The cortifi	ed convert the priority application that may have been communicate	ted to the PTO by th	

The certified copy of the priority application that may have been communicated to the PTO by the International Bureau may not be relied on without any need to file a certified copy of the priority application in the continuing application. This is so because the certified copy of the priority application communicated by the International Bureau is placed in a folder and is not assigned a U.S. serial number unless the national stage is entered. Such folders are disposed of if the national stage is not entered. Therefore, such certified copies may not be available if needed later in the prosecution of a continuing application. An alternative would be to physically remove the priority documents from the folders and transfer them to the continuing application. The resources required to request transfer, retrieve the folders, make suitable record notations, transfer the certified copies, enter and make a record of such copies in the Continuing Application are substantial. Accordingly, the priority documents in folders of international applications that have not entered the national stage may not be relied on. Notice of April 28, 1987 (1079 O.G. 32 to 46).

# 

[ ] Issue Fee paid \_\_\_\_\_

## 20. Further Inventorship Statement Where Benefit of Prior Application(s) Claimed

(complete applicable item (a), (b) and/or (c) below)

(a) [ ] This application discloses and claims only subject matter disclosed in the prior application whose particulars are set out above and the inventor(s) in this application are
[ ] the same.
[ ] less than those named in the prior application. It is requested that the following inventor(s) identified for the prior application be deleted:
(type name(s) of inventor(s) to be deleted)
(b) [ ] This application discloses and claims additional disclosure and a new declaration or oath is being filed. With respect to the prior application, the inventor(s) in this application are
[ ] the same.
[ ] the following additional inventor(s) have been added:
- (type name(s) of inventor(s) to be added)
(c) [ ] The inventorship for all the claims in this application are
[ ] the same.
[ ] not the same. An explanation, including the ownership of the various claims at the time the last claimed invention was made
[ ] is submitted. [ ] will be submitted.
21. Abandonment of Prior Application (if applicable)
[ ] Please abandon the prior application at a time while the prior application is pending, or whe the petition for extension of time or to revive in that application is granted, and when this application is granted a filing date, so as to make this application copending with said prior application.
NOTE: According to the Notice of May 13, 1983 (103, TMOG 6-7), the filing of a continuation or continuation-in-part application is a proper response with respect to a petition for extension of time or a petition to revive and should include the express abandonment of the prior application conditioned upon the granting of the petition and the granting of a filing date to the continuing application.

## 22. Petition for Suspension of Prosecution for the Time Necessary to File an Amendment

WARNIN	G: "The claims of a new application may be finally rejected in the first Office action in those situations where (1) the new application is a continuing application of, or a substitute for, an earlier application, and (2) all the claims of the new application (a) are drawn to the same invention claimed in the earlier application, and (b) would have been properly finally rejected on the grounds of art of record in the next Office action if they had been entered in the earlier application." MPEP, § 706.07(b).
j	Where it is possible that the claims on file will give rise to a first action final for this continuation application and for some reason an amendment cannot be filed promptly (e.g., experimental data is being gathered) it may be desirable to file a petition for suspension of prosecution for the time necessary.
	(check the next item, if applicable)
	There is provided herewith a Petition To Suspend Prosecution for the Time Necessary to File An Amendment (New Application Filed Concurrently)
23. NO	TIFICATION IN PARENT APPLICATION OF THIS FILING
	A notification of the filing of this (check one of the following)
1	[ ] continuation
I	] continuation-in-part
ı	[ ] divisional
is being t	filed in the parent application, from which this application claims priority under 35 U.S.C. &

is being filed in the parent application, from which this application claims priority under 35 U.S.C. § 120.